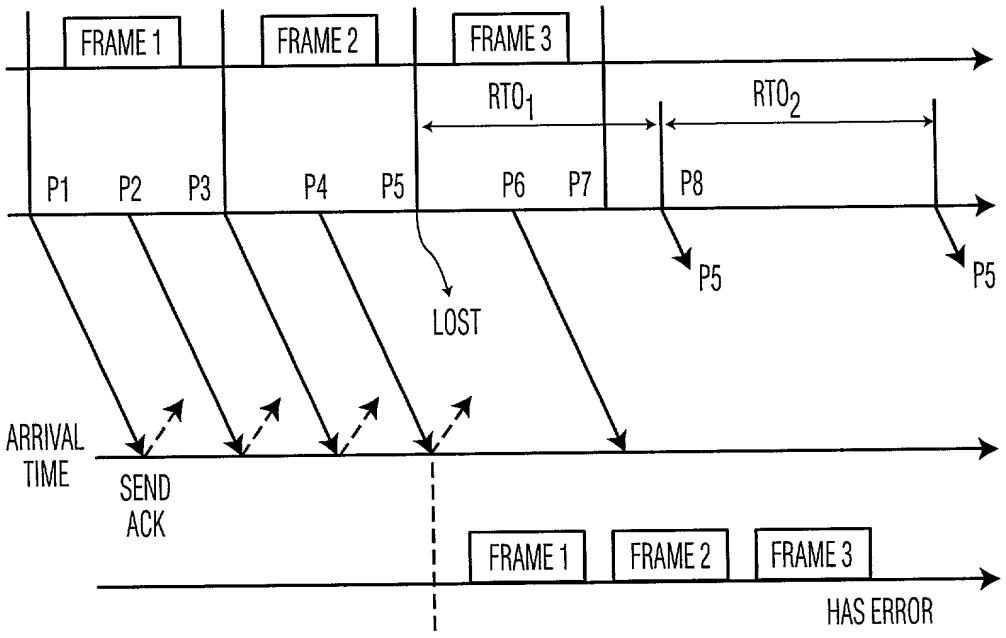
FRAME 1
FRAME 2
FRAME 3
RTO1
RTO2
P1
P2
P3
P4
P5
P6
P7
P8
P5
P5
LOST
ARRIVAL TIME
SEND ACK
FRAME 1
FRAME 2
FRAME 3
HAS ERROR

FIG. 1(a)

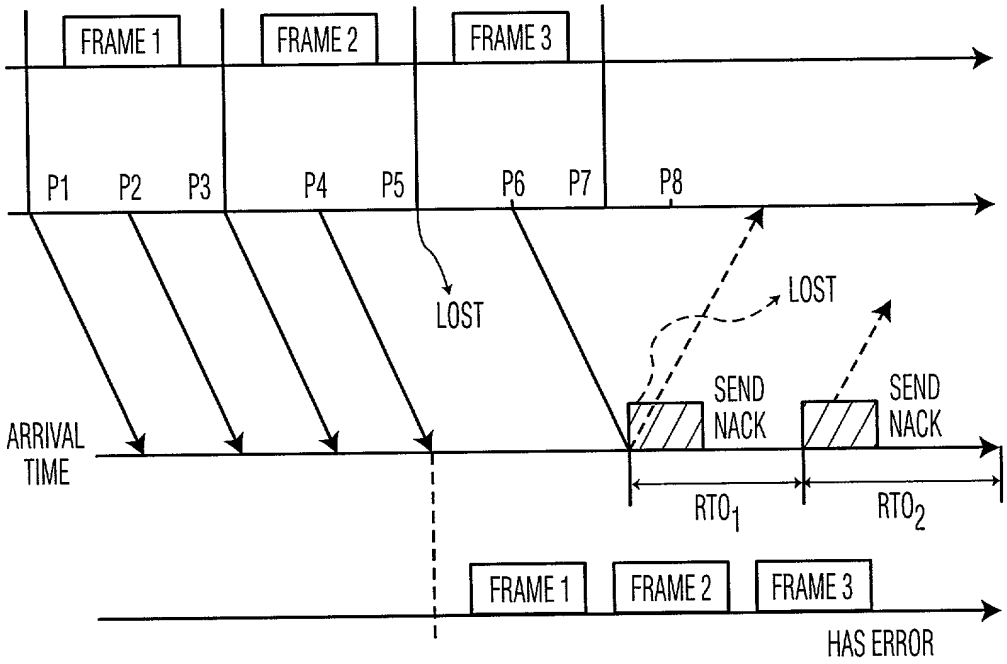
FRAME 1
FRAME 2
FRAME 3
P1
P2
P3
P4
P5
P6
P7
P8
LOST
LOST
SEND NACK
SEND NACK
ARRIVAL TIME
RTO1
RTO2
FRAME 1
FRAME 2
FRAME 3
HAS ERROR

FIG. 1(b)

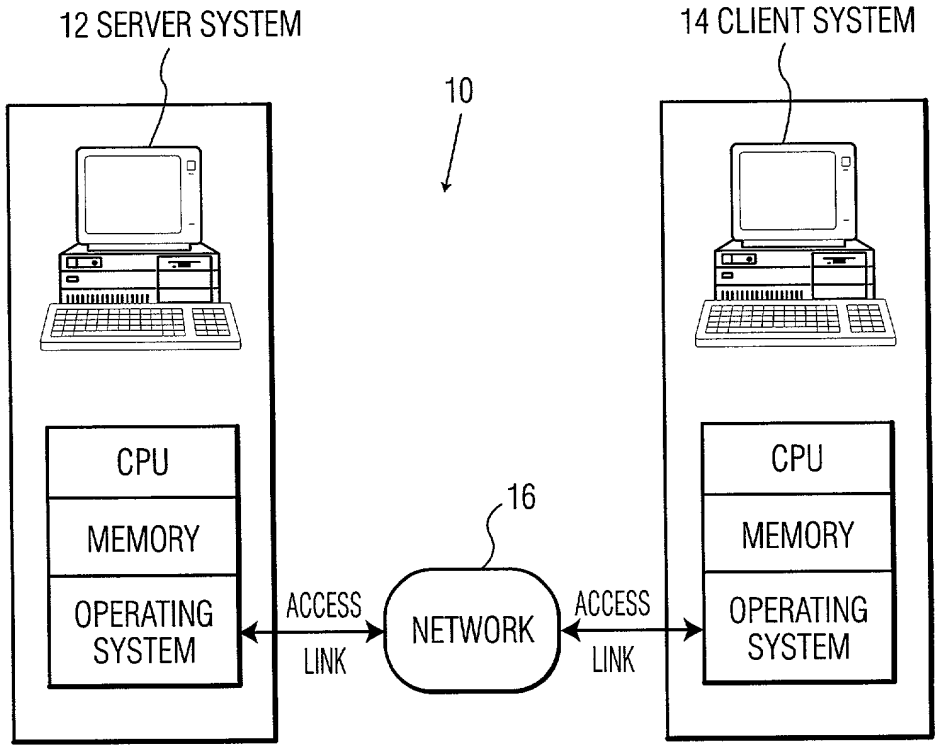

FIG. 2

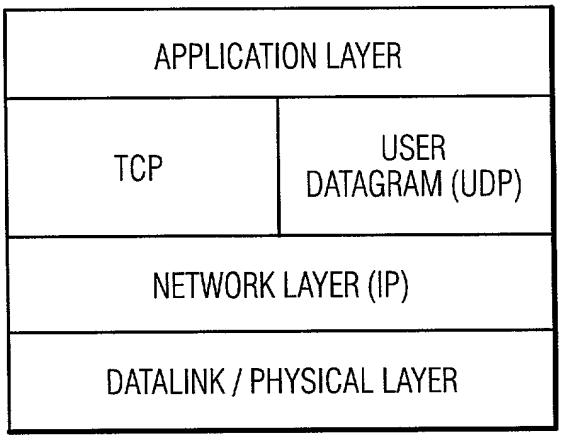

FIG. 3

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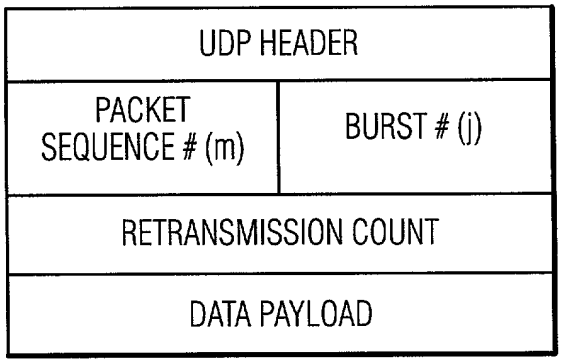

FIG. 4(a)

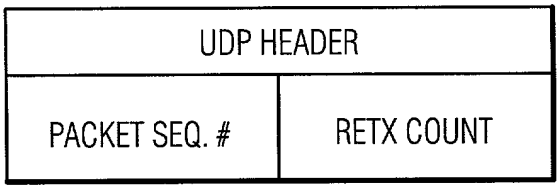

FIG. 4(b)

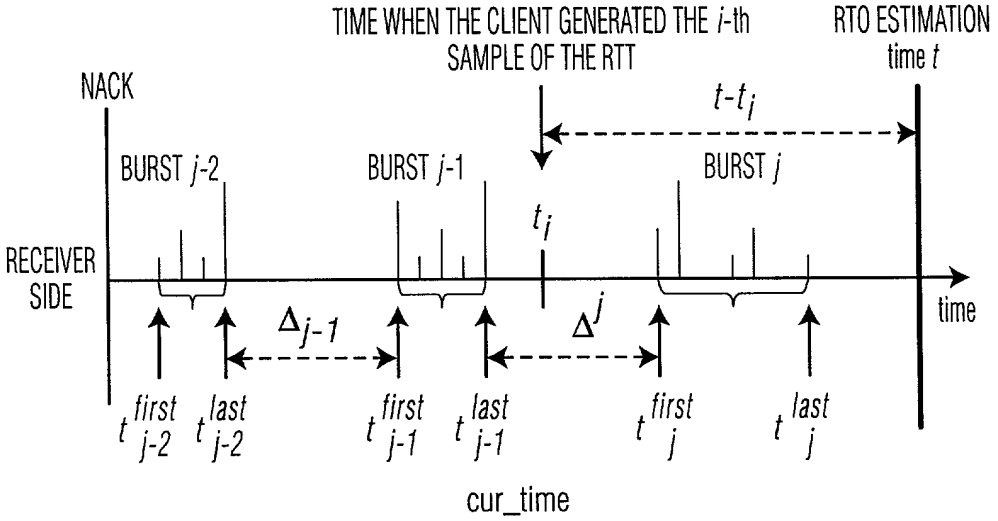

FIG. 5

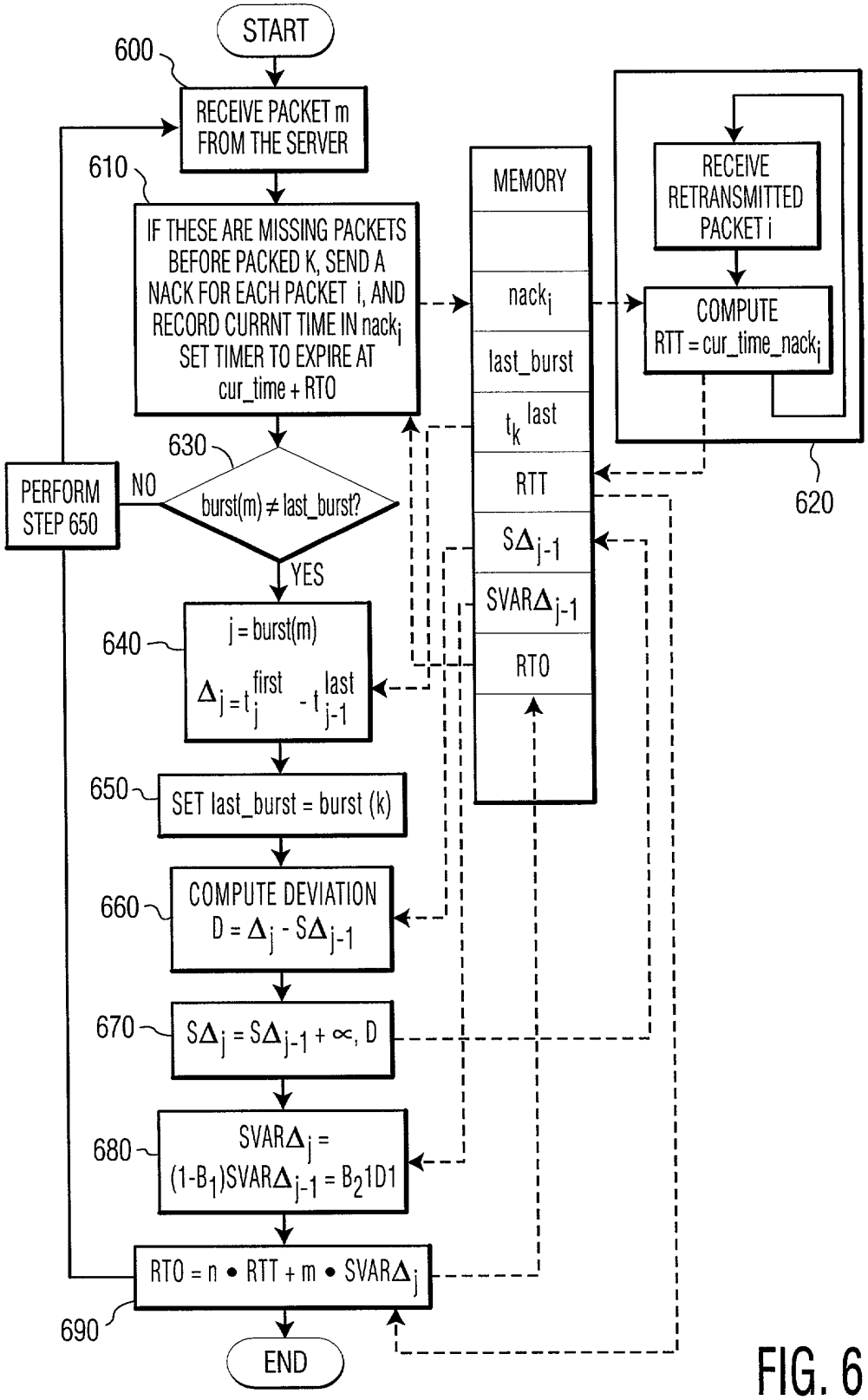
START
600
RECEIVE PACKET m FROM THE SERVER
610
IF THESE ARE MISSING PACKETS BEFORE PACKED K, SEND A NACK FOR EACH PACKET i, AND RECORD CURRNT TIME IN $nack_i$ SET TIMER TO EXPIRE AT cur_time + RTO
630
burst(m) ≠ last_burst?
NO
PERFORM STEP 650
YES
640
j = burst(m)
$\Delta_j = t_j^{first} - t_{j-1}^{last}$
650
SET last_burst = burst (k)
660
COMPUTE DEVIATION
$D = \Delta_j - S\Delta_{j-1}$
670
$S\Delta_j = S\Delta_{j-1} + \alpha, D$
680
$SVAR\Delta_j =$
$(1-B_1)SVAR\Delta_{j-1} = B_2 1D1$
690
RTO = n • RTT + m • $SVAR\Delta_j$
END
MEMORY
$nack_i$
last_burst
t_k^{last}
RTT
$S\Delta_{j-1}$
$SVAR\Delta_{j-1}$
RTO
RECEIVE RETRANSMITTED PACKET i
COMPUTE
RTT = cur_time_$nack_i$
620

FIG. 6